

5. Consequences of the Peano axioms.

We shall need some theorems about the integers in the  
 rather than to break the chains of numbers  
 them at the places where they are needed. It is most convenient  
 to the chains of numbers from the hypotheses

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July 12-18  $(x) \cdot Sx \neq 0$  (A 5.1)  
 $(x) \cdot Sx \neq 0$  (A 5.2)

These are essentially the Peano axioms, but there is no reference  
 to the property of 'being a number', which, unlike in the Peano  
 system, we define by

$n_0 = \lambda x (x \neq 0 \wedge (\forall y) (x = Sy \rightarrow \exists z (z = 0 \wedge x = Sz)))$  (A 5.3)

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